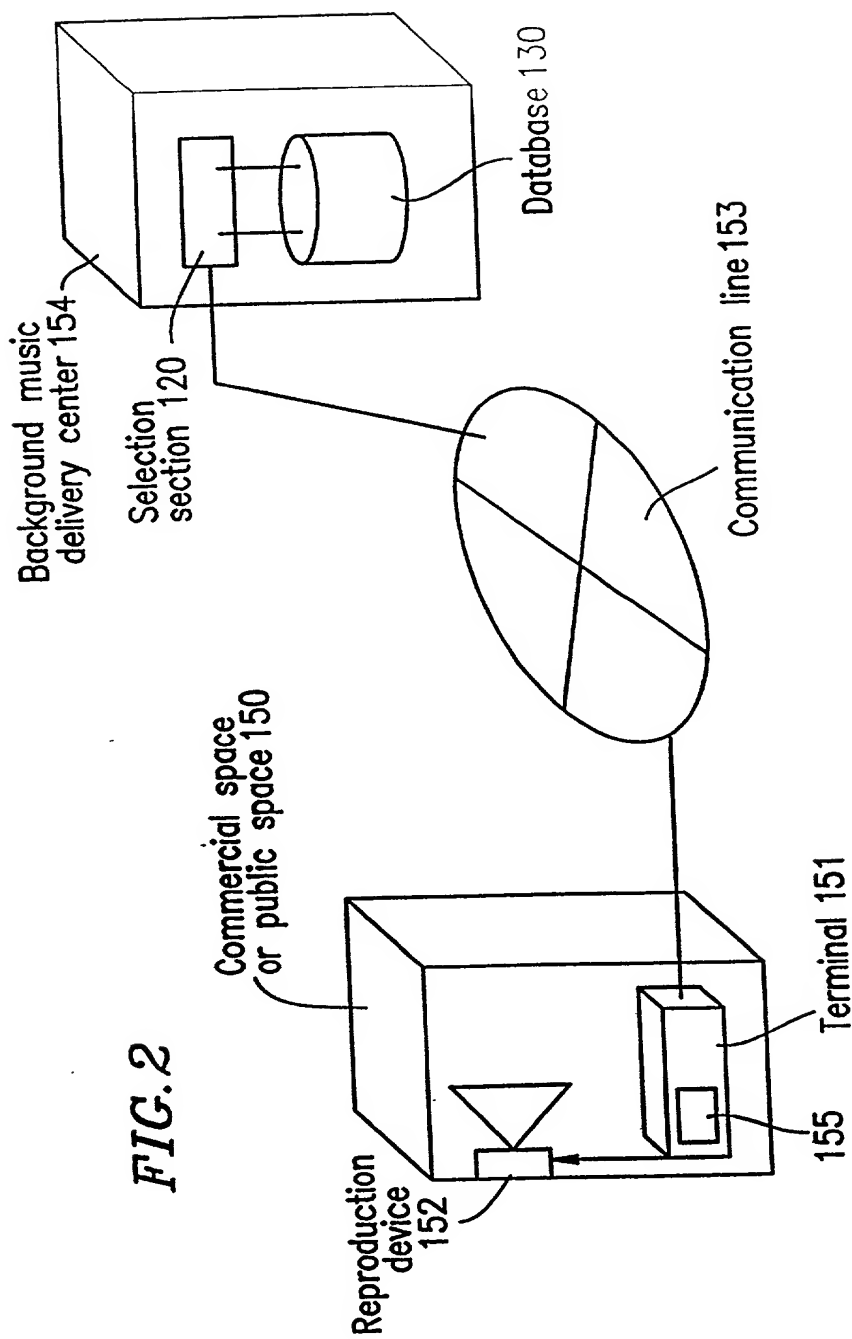
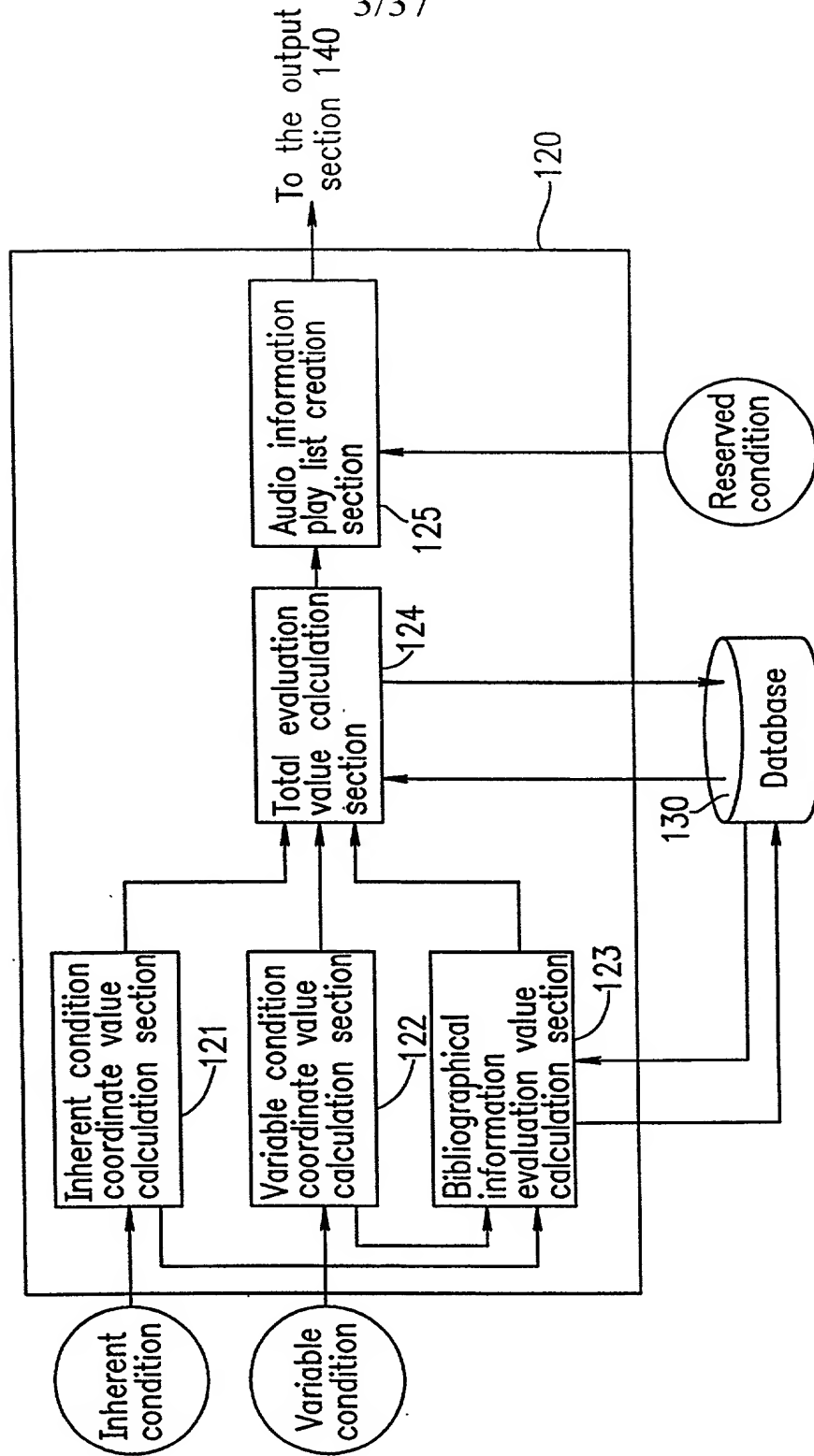


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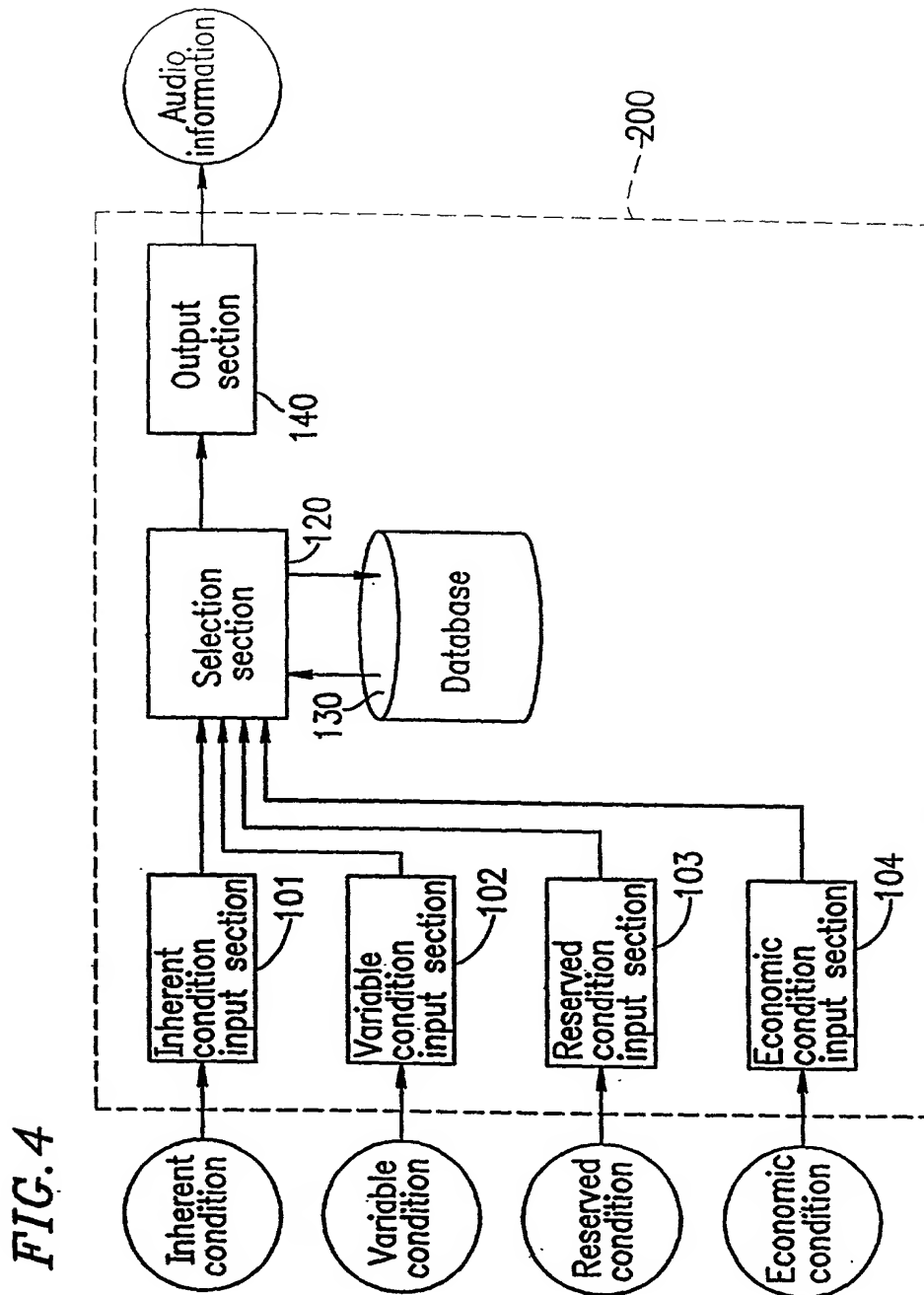


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FIG. 3



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FIG. 5A

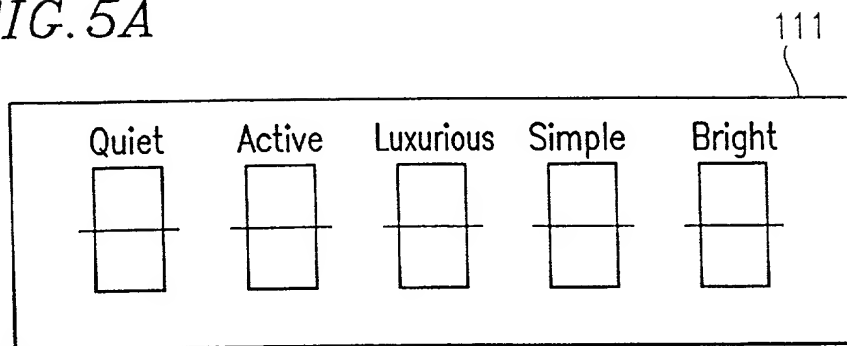
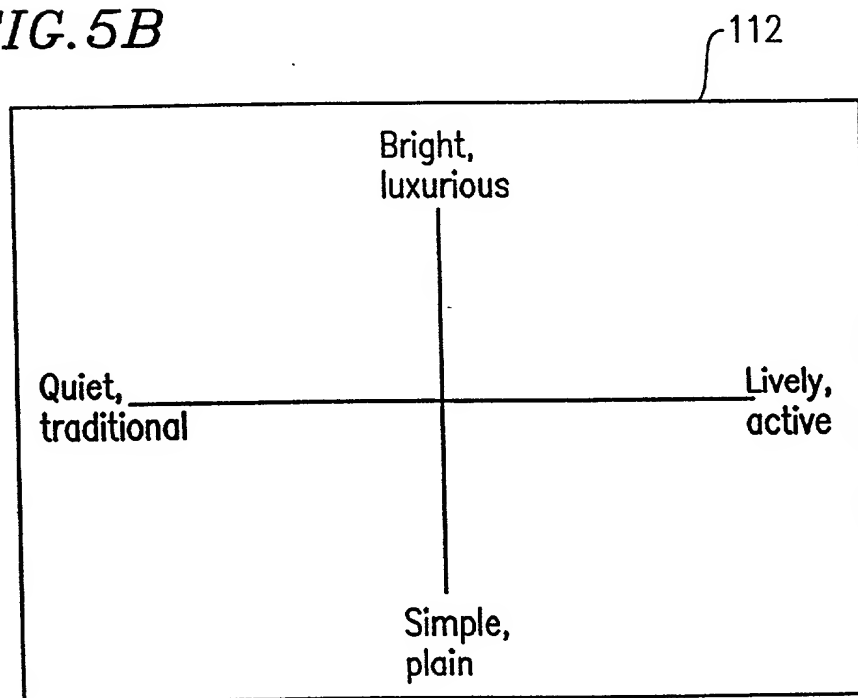


FIG. 5B



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FIG. 5C

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Department store

Café

Wedding reception house

Clothing for women

Clothing for men

FIG. 6

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Data and time (m/d/y): March , 14 , 2001 2 p.m.

Day of the week: Saturday

Weather: Fine Selection

Temperature: 20 °C

Humidity: 40 %

Temperature-humidity index: Comfortable Selection

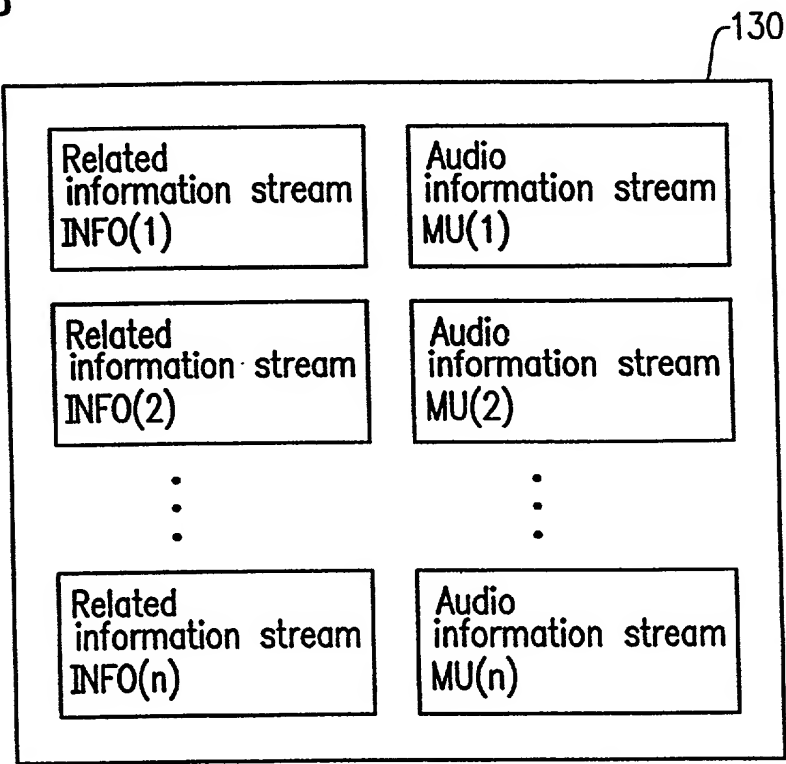
Crowdedness: Very crowded Selection

FIG. 7

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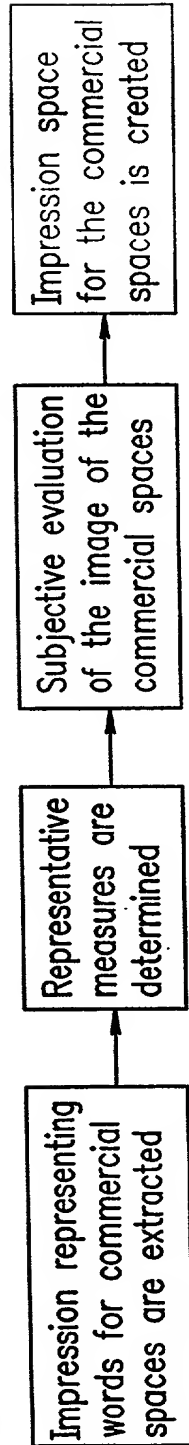
Time signal:	12:00	
Point-of-purchase advertising:	12:01	Filename Op1
Original:	11:20	Filename Op10
Opening time:	10:00	
Closing time:	20:00	

FIG. 8



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*FIG. 9*





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FIG. 10

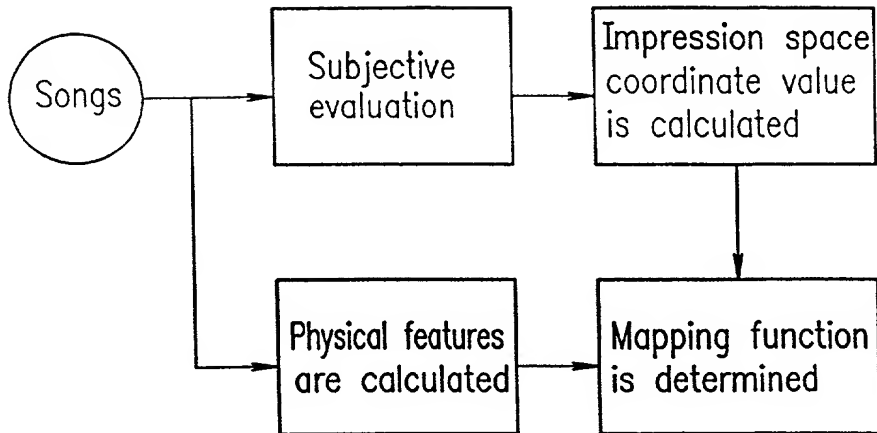


FIG. 11

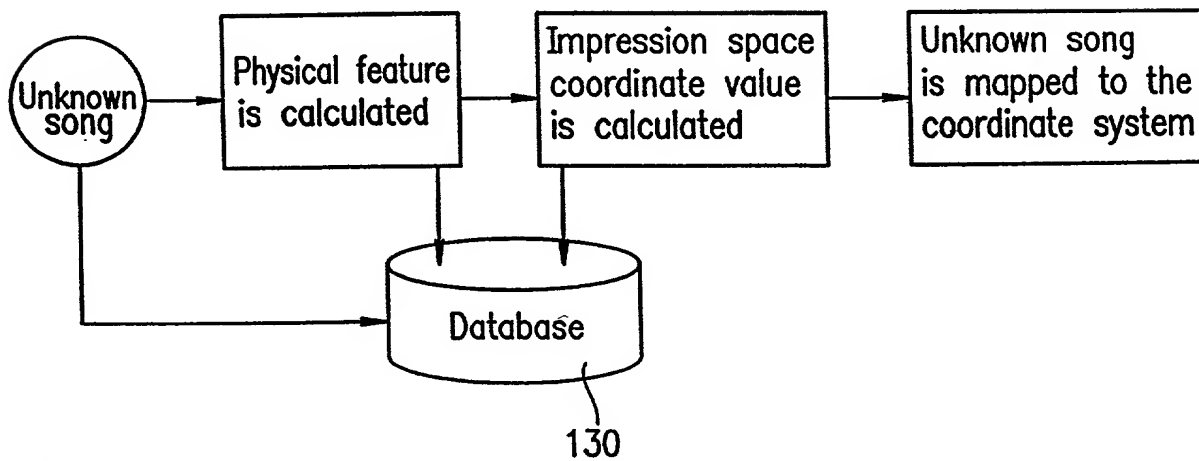
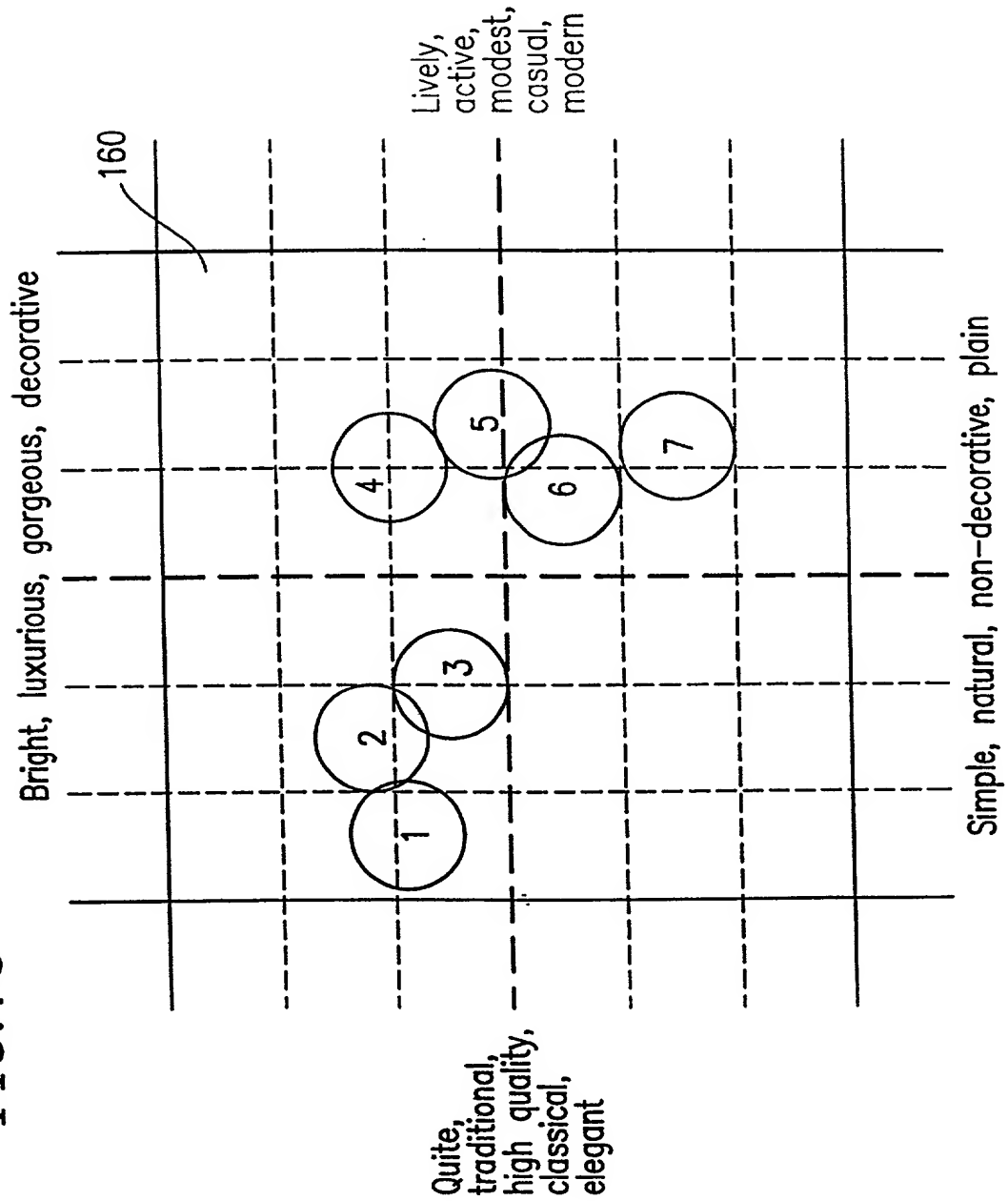


FIG. 12

Space ID	Store	Quiet	Active	Luxurious	Moderate price	Traditional	Casual	Modern	Bright
1	High quality store A	0.5	-0.5	0.4	-0.6	0.9	-0.4	-0.4	0.2
2	High quality store B	0.5	-0.5	0.6	-0.3	0.3	-0.2	-0.3	0.4
3	High quality store C	0	0	0.2	-0.2	0.4	-0.1	-0.2	0.2
4	High quality store D	-0.5	0.6	0.2	0.2	-0.3	0.3	0.7	0.7
5	Standard quality store A	-0.5	0.8	0.1	0.1	-0.5	0.8	0.7	-0.3
6	Standard quality store B	-0.5	0.6	-0.3	0	-0.3	0.5	0.1	-0.3
7	Moderate price store A	-0.9	0.4	-0.9	0.9	-0.9	1	0	-0.9

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FIG. 13



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*FIG. 14*

Space ID	Store	Space image	Coordinate value (x,y)
1	High quality store A	Formal, classical	(-2.4, +0.9)
2	High quality store B	Conservative, gorgeous	(-1.5, +1.2)
3	High quality store C	Elegant	(-1.0, +0.5)
4	High quality store D	Modern, rich	(+1.0, +1.0)
5	Standard quality store A	Young, casual	(+1.4, +0.1)
6	Standard quality store B	Simple, natural	(+0.8, -0.5)
7	Moderate price store A	Moderate price, convenient	(+1.2, -1.5)

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FIG. 15

Day of the week (ID)	Time (ID)		
	AM(1)	PM0 ~ 5(2)	PM5 ~ 8(3)
Monday through Thursday (WD)	Age group: 40s to 70s  Very few customers	Age group: 20s to 50s  Moderately crowded	Age group: 20s to 40s.  Very crowded
Friday (WE)	Age group: 40s to 70s  Very few customers	Age group: 20s to 50s  Moderately crowded	Age group: 20s to 40s  Very crowded
Saturday, Sunday, holiday (HD)	Age group: 20s to 70s  Very crowded	Age group: 20s to 70s  Very crowded	Age group: 20s to 50s  Very crowded

FIG. 16

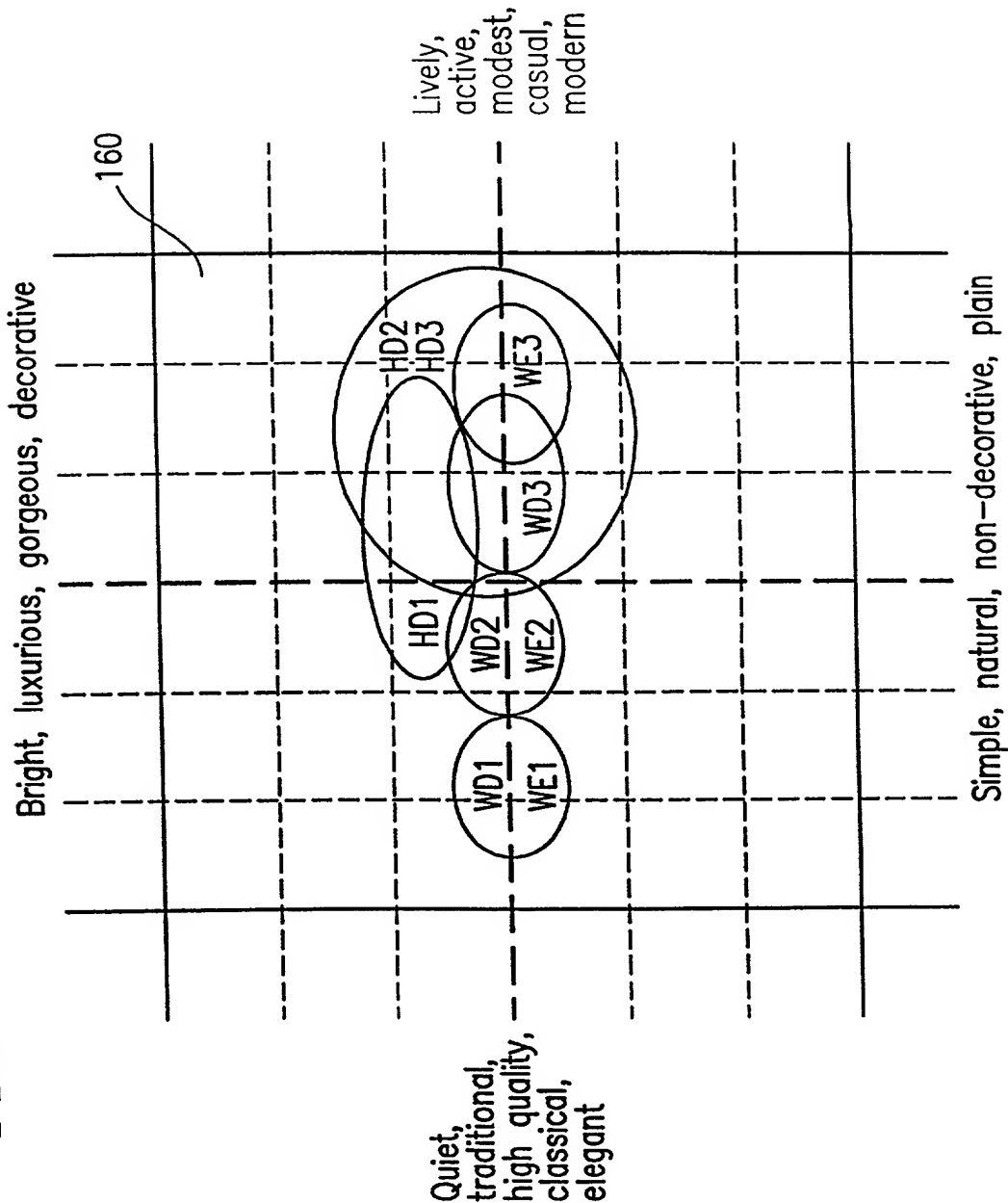
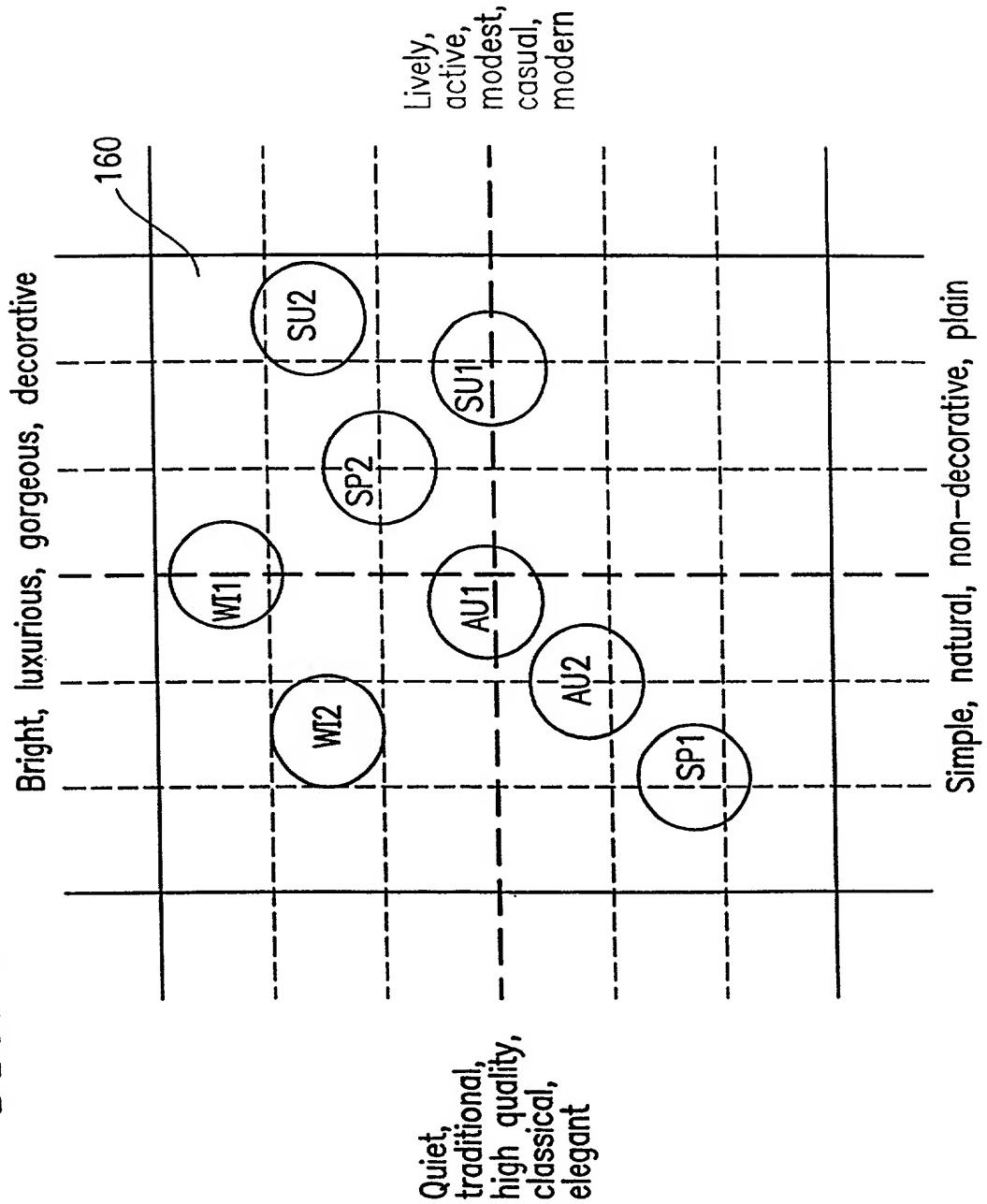


FIG. 17

Season ID	Season	Special season ID	Special season
SP2	Spring April	SP2A	April 1 to April 10 Entrance ceremony
SU1	Early summer May, June	SU1A	May 5 Children's day
SU2	Summer July, August		
AU1	Autumn September, October	AU1A	October 10 Athletics meet
AU2	Late autumn November		
WI1	Winter, end of the year December	WI1A	December 15 to December 25 Christmas
		WI1B	December 26 to December 31 End of the year
WI2	Winter, beginning of the year January	WI2A	January 1 to January 15 Beginning of the year
SP1	Early spring February, March	SP1A	March 3 Girls' Festival
		SP1B	March 1 to March 20 Graduation ceremony
ALL	All the seasons		

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FIG. 18





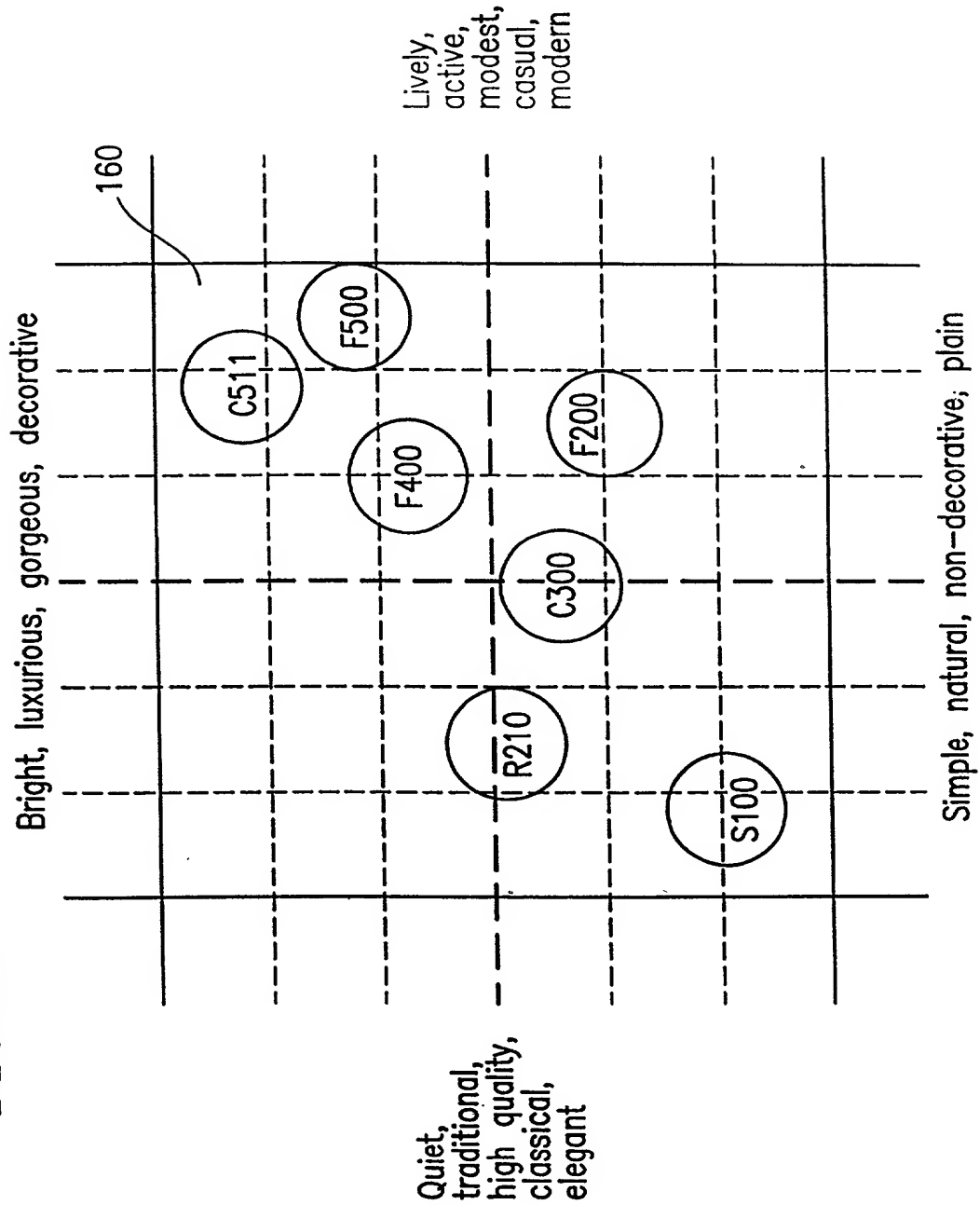
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*FIG. 19*

Weather (ID)	Temperature (ID)	Discomfort index (ID)
Rain (R)	$t < 0(1)$	Comfortable (00)
Cloudy (C)	$0 < t < 10(2)$	Slightly uncomfortable (10)
Fine (F)	$10 < t < 20(3)$	Uncomfortable (11)
Snow (S)	$20 < t < 30(4)$	
	$30 < t(5)$	

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FIG. 20



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FIG. 21

Adjustment information for each musical genre											
	Orchestra	Big band jazz	Classic, string music	Piano solo	Popular	Jazz	Fusion	New music, easy listening	Healing	Rock, dance, pops	Folk
Space ID											
1			1/2	1/2	2	2	2	2		+∞	+∞
2	1/2	1/2	1/2	1/2	1/2	2	2	2		+∞	+∞
3	1/2	1/2	1/2	1/2	1/2	1/2	2			+∞	+∞
4					1/2	1/2	1/2			+∞	+∞
5	2	2	+∞	+∞	1/2	1/2	1/2		+∞	1/2	1/2
6	+∞		+∞	+∞	1/2	2		1/2	+∞		1/2
7	+∞		+∞	+∞	1/2	2		1/2	+∞		1/2

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FIG.22

Space ID	Related bibliographical information	Gain information
1001 Wedding reception house 1005 Department store	Farewell, solitude, death	$+\infty$
	Bitter, grudge, sorrow	$+\infty$
	Disease, pain	$+\infty$
1001 Wedding reception house	Bride, just married	0
1022 Toy section	Toy, kids, babies, infants, nursery songs	0

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FIG. 23

Season ID	Related bibliographical information	Adjustment information
SU2	Singers associated with summer	
	Bands associated with summer	0
	Summer, sea, sun	
	Hot, fighting spirit, tropics	
SP1A	Girls' Festival	0
SU1A	Carp streamer	0
AU1A	Athletics meet, physical training	0
WI1, WI2	Singers associated with winter	1/2
WI1A	Christmas	0
WI2A	Japanese music	1/2
	Early spring, new year, beginning of the year	0
WI1B	"Auld Lang Syne"	0
WI1B	"Symphony No. 9" by Beethoven	0
SP1B	Songs associated with spring	1/2
WD1, WE1	Morning, waking	1/2
HD1	Night, midnight	$+\infty$
WD2, WD3	Morning ,waking	$+\infty$
WE2, WE3	. . .	
HD2, HD3	. . .	

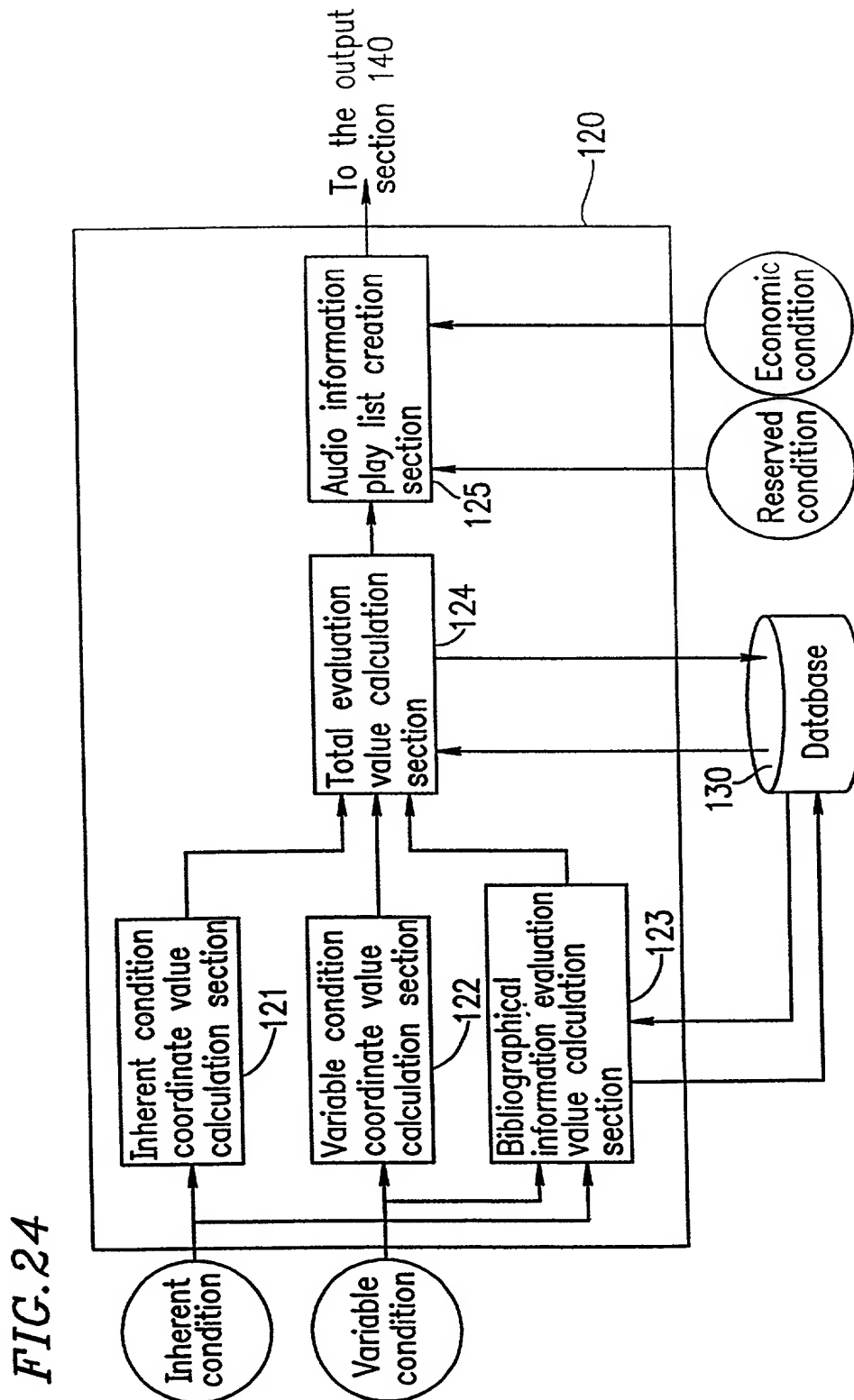
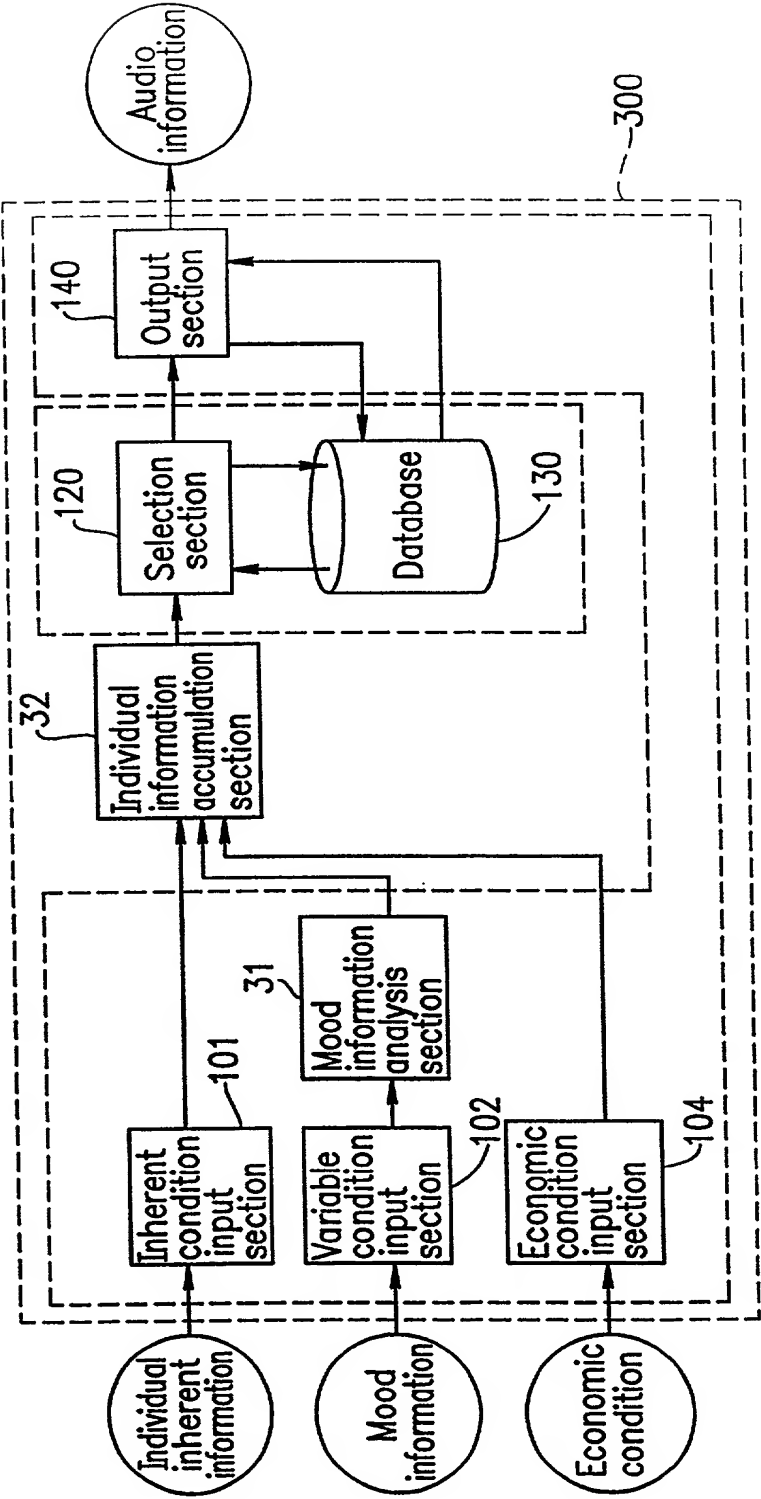


FIG. 25



Family structure: Parents, brother, sister  
 Music you like: classic, jazz, pop, screen music,  
 new age, techno  
 Music you do not like: rock, "enka"  
 Musical experience: Played the trumpet in a brass band  
 Credit card number: 1468-3456-7334-5343



FIG. 27

Image check list of  
desired music

<input checked="" type="checkbox"/>	Calm
<input checked="" type="checkbox"/>	Bright and happy
<input type="checkbox"/>	Sentimental
<input type="checkbox"/>	Moving
<input type="checkbox"/>	Vigorous and high-spirited
<input type="checkbox"/>	Light-footed
<input type="checkbox"/>	Curious and eccentric
<input checked="" type="checkbox"/>	Southern
⋮	

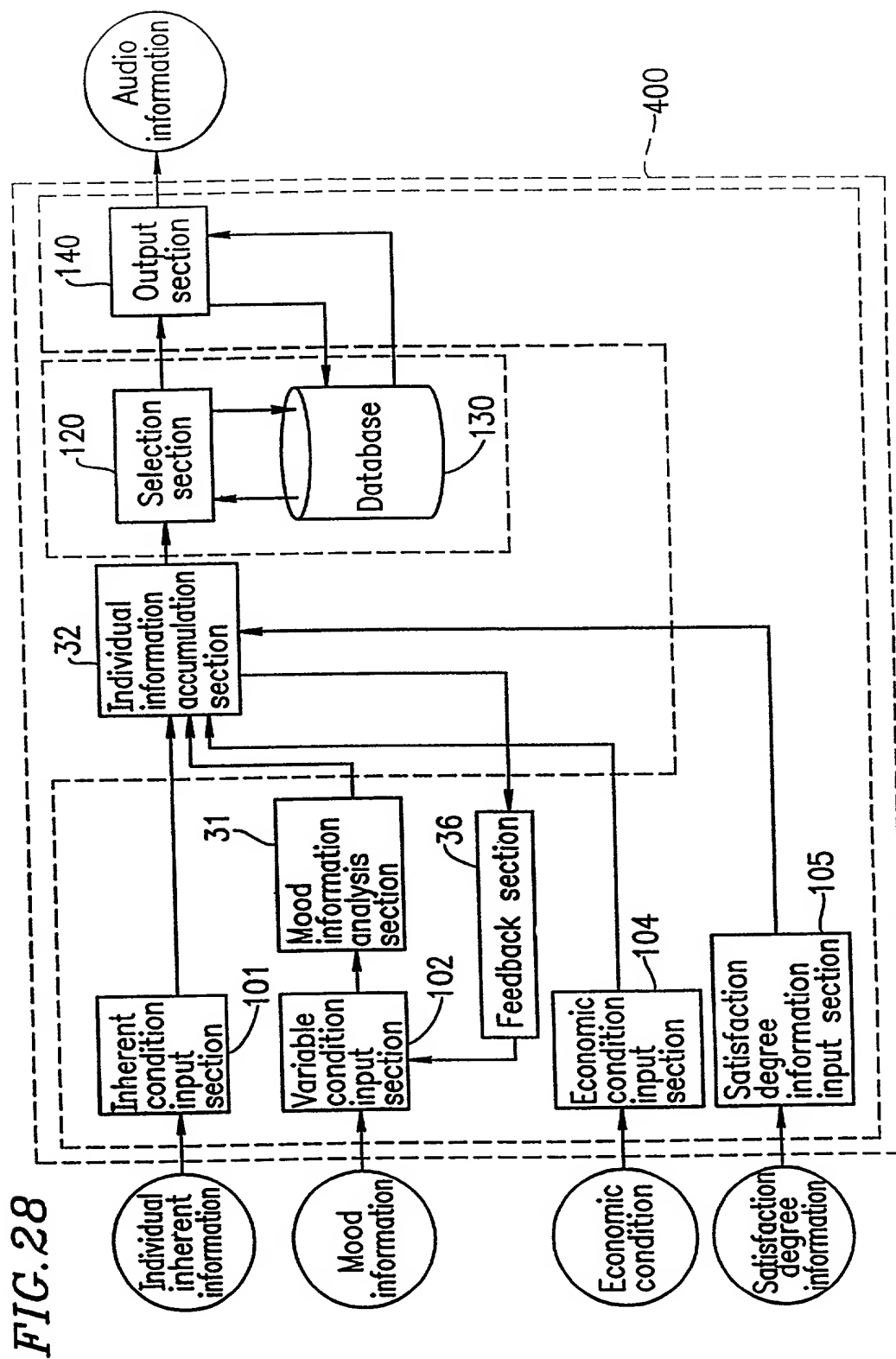
Input of images of music by the user



Value weighted by coefficients using  
musical representation factor

Power factor	a=0.1
Calmness factor	b=0.8
Sadness factor	c=0.0
"Esthetic" factor	d=0.5
"Metallic" factor	e=0.1
Softness factor	f=0.2
Brightness factor	g=1.0
Space factor	h=0.5
⋮	⋮

Analysis result provided by the mood  
information analysis section 31



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FIG.29

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- The following songs will satisfy your demands within your budget of 500 yen.

Title	Performer	Duration
1. Song M	Singer S	5'30"
2. Song Mn	Player Ss	4'30"
3. Song MM	Singer SS	5'00"

- Do you want to sample them?

☒ Yes  
☐ No

- If you do not like some of the songs after sampling them, they will be removed from the list. We will provide different songs after searching again.

Title	Satisfied	Not satisfied
1. Song M	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Song Mn	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Song MM	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Tell us how strongly you feel Song M fits the following images.

	Very strong	Medium	Very weak
Calm	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bright and happy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Southern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FIG. 30

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- We provided you with the following bossa nova songs the last time.

Title	Performer	Duration
1. Song M	Singer S	5'30"
2. Song Mn	Player Ss	4'30"
3. Song MM	Singer SS	5'00"

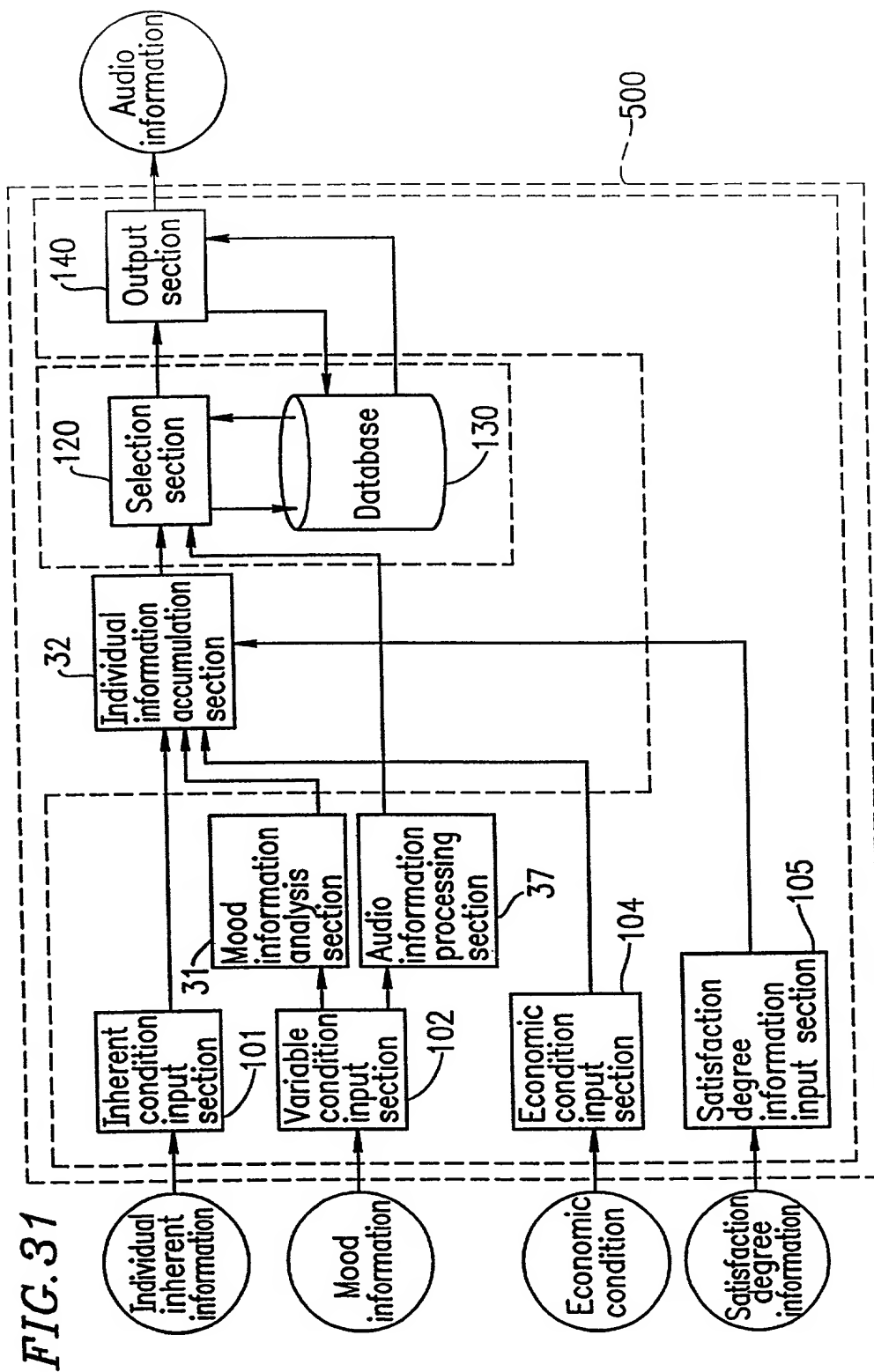
- Do you want songs other than the above?

☒ Yes  
☐ No

- Latin genres similar to bossa nova you desired the last time are added to your list

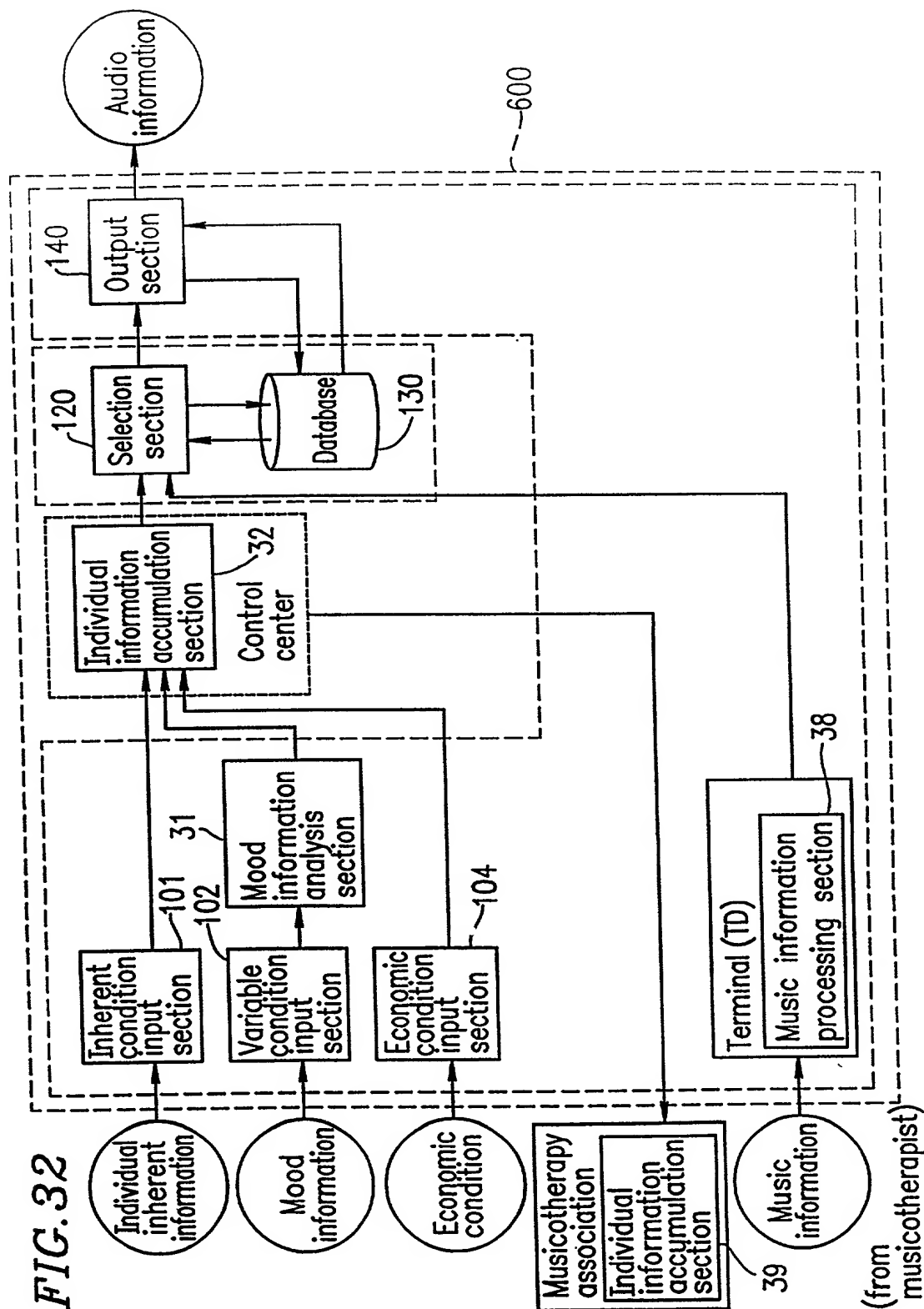
Musical genre check list	Musical genre check list added
<input type="checkbox"/> Bossa nova	<input type="checkbox"/> Afro-Cuban
<input type="checkbox"/> Classic	<input type="checkbox"/> Son
<input type="checkbox"/> Jazz	<input type="checkbox"/> Habanera
<input type="checkbox"/> Pop (Western)	<input type="checkbox"/> Samba
<input type="checkbox"/> Pop (Japanese)	<input type="checkbox"/> Rumba
<input type="checkbox"/> New age	<input type="checkbox"/> Salsa
<input type="checkbox"/> Pop (Asian)	⋮
<input type="checkbox"/> Screen music	⋮
⋮	⋮

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FIG. 32



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FIG.33

If you would like musicotherapy,  
please tell us your current physical  
and mental states.

- ☒ Insomnia
- ☐ Unstable
- ☐ Manic-depressive
- ☐ Nervous
- ☐ Scared
- ☐ Unwilling to do anything
- ☐ ...

Desired cost for one  
session of musicotherapy

- |                          |          |            |
|--------------------------|----------|------------|
| <input type="checkbox"/> | 2000 yen | 30 minutes |
| <input type="checkbox"/> | 3000 yen | 45 minutes |
| <input type="checkbox"/> | 4000 yen | 60 minutes |
| <input type="checkbox"/> | 5000 yen | 90 minutes |

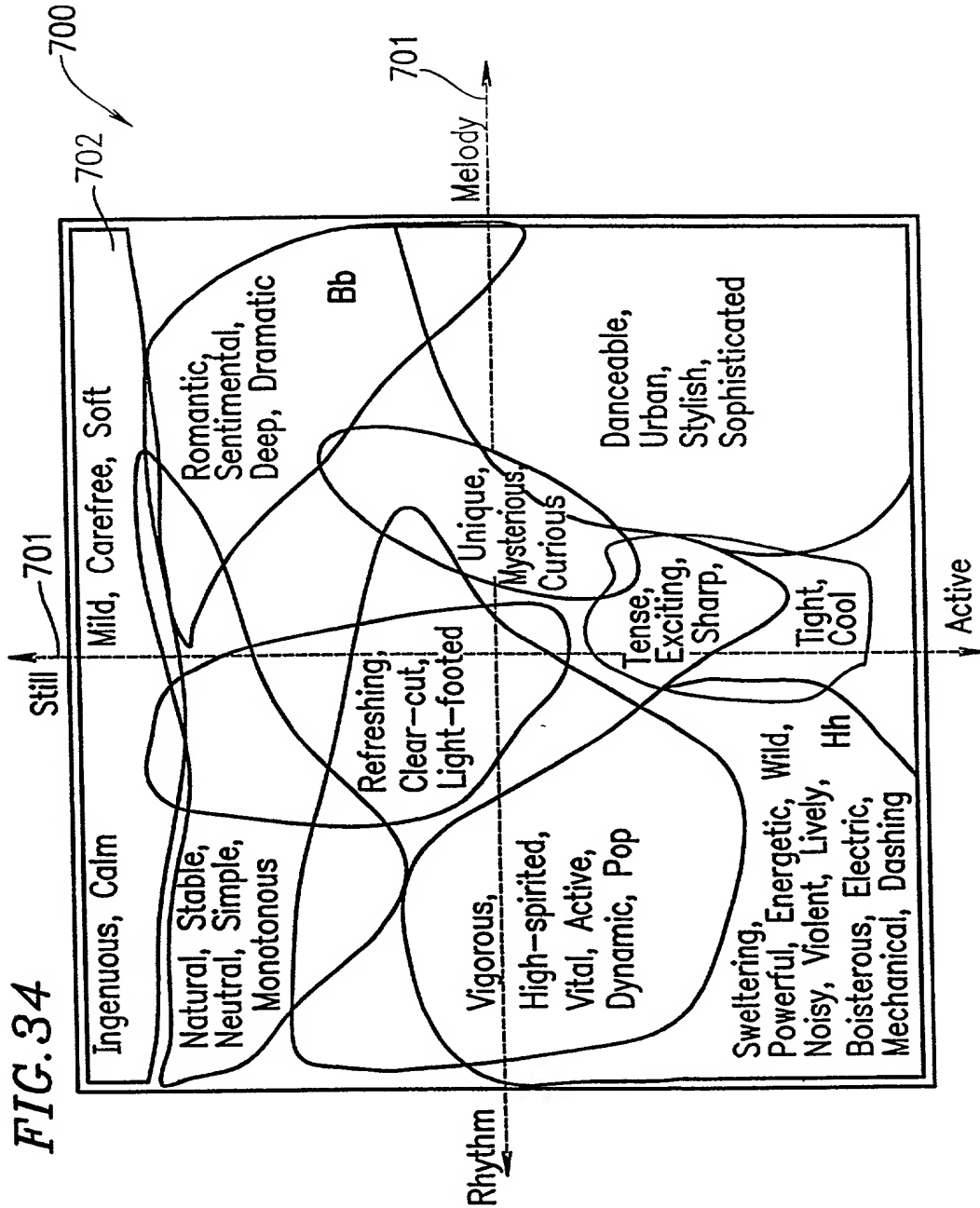
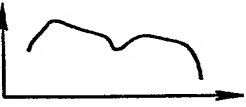



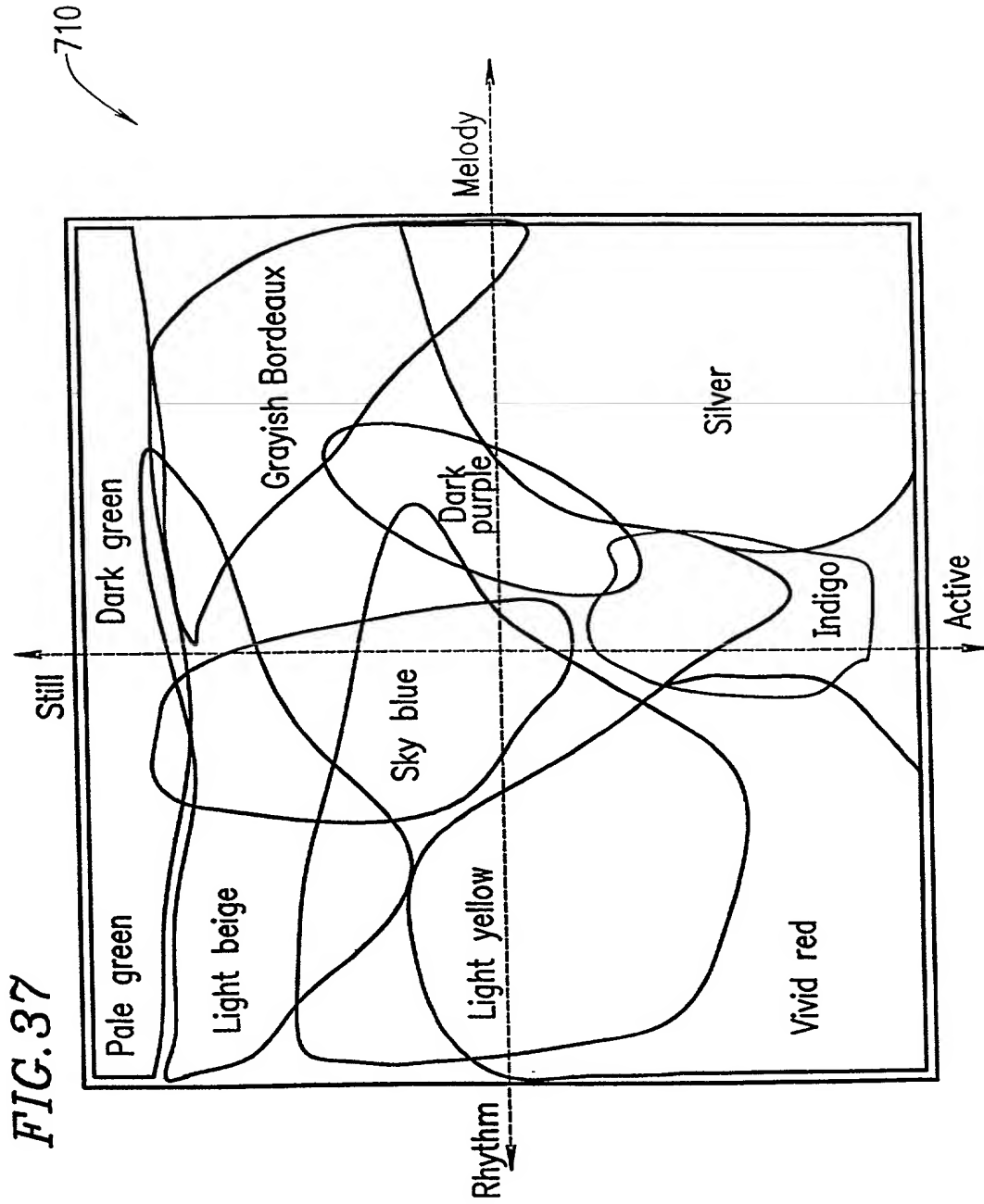


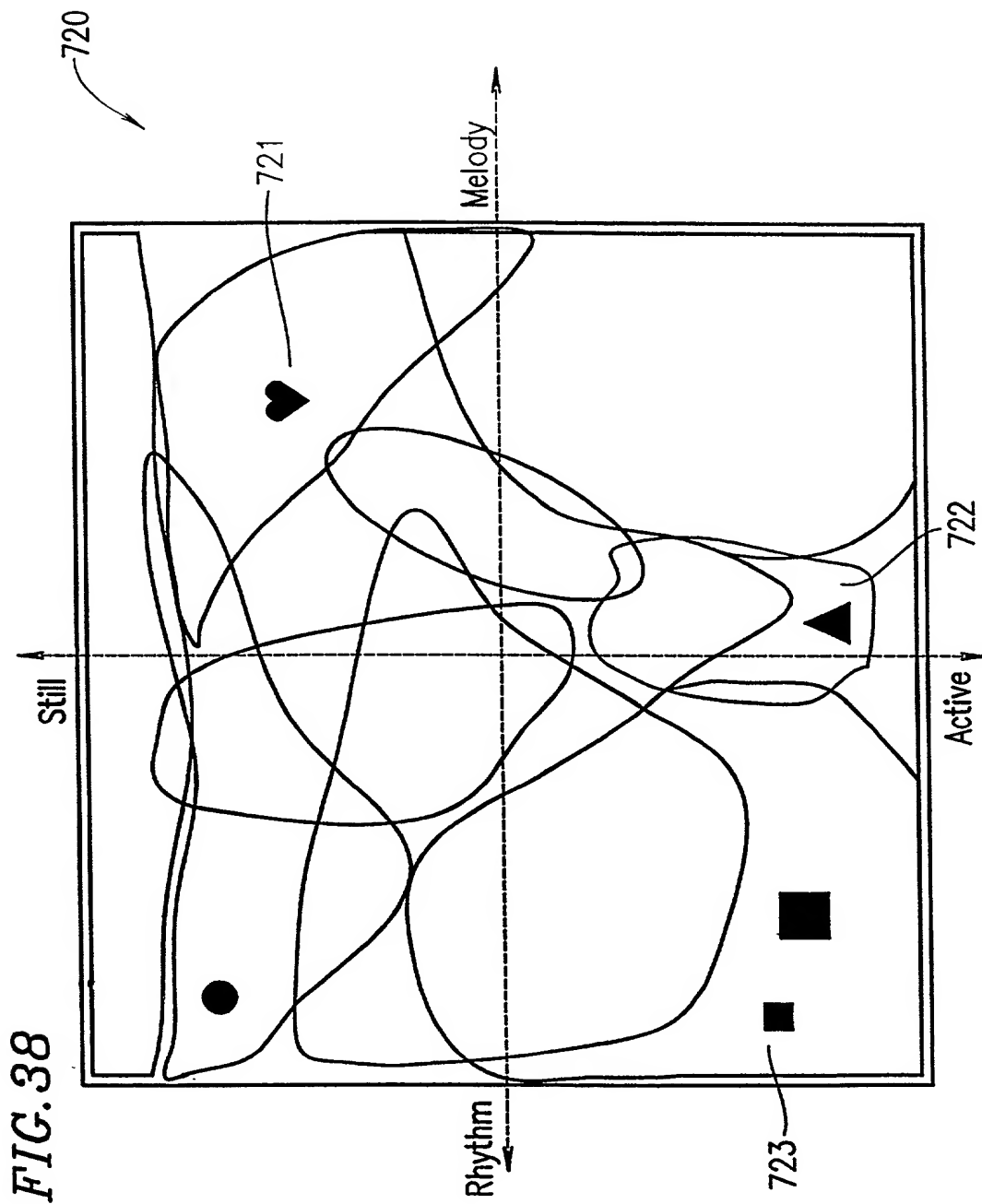
FIG. 35

1	<u>Powerful</u> , violent, noisy, dashing, wild <u>Calm</u> , mild, carefree
2	<u>Vigorous</u> , pop, dynamic, high-spirited, vital, active <u>Non-vigorous</u> , deep, sentimental, romantic
3	<u>Refreshing</u> , light-footed, clear-out <u>Sweltering</u> , boisterous, lively
4	<u>Natural</u> , simple, stable, neutral, monotonous <u>Dramatic</u> , urban, sophisticated, stylish
5	<u>Sharp</u> , cool, tight, tense, exciting <u>Soft</u>

FIG. 36

	Audio information stream 1	Audio information stream 2
Tempo	140	70
Frequency characteristics		
Formation of instruments	8 Electric base, 2 electric guitars, drums, percussion, synthesizer, vocal, trumpet	2 Piano, tenor sax
Average pitch	2500	800
Fluctuation of tempo	$1/f^2$	$1/f$
Image part	Hh	Bb





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